

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/770,607	02/03/2004	Yun Chu	CP4001-AMP06552	1419	
759	90 10/19/2006		EXAM	INER	
YUN CHU			SHARMA, SUJATHA R		
235 Chung - Ho Box 8-24) .		ART UNIT PAPER NUMBER		
Taipei,			2618	2618	
TAIWAN			DATE MAILED: 10/19/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Applicati	Application No. Applicant(s)					
		10/770,6	07	CHU, YUN				
		Examine		Art Unit				
	-	Sujatha S	harma	2618				
Period fo	The MAILING DATE of this communication or Reply	appears on the	cover sheet with the	correspondence a	ddress			
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by steply received by the Office later than three months after the reply period for reply will. See 37 CFR 1.704(b).	G DATE OF THE R 1.136(a). In no evol. Period will apply and we tatute, cause the app	HIS COMMUNICATIC ent, however, may a reply be till expire SIX (6) MONTHS fror lication to become ABANDON	DN. imely filed in the mailing date of this ED (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) filed on <u>0</u>	3 February 20	04					
	This action is FINAL . 2b)⊠ This action is non-final.							
	rosecution as to th	ne merits is						
٠,۵	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	- -	2,0,10000000000000000000000000000000000					
_	· _							
	Claim(s) <u>1-11</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
_	Claim(s) 1-11 is/are rejected.							
7)∐	Claim(s) is/are objected to.		:					
8)	Claim(s) are subject to restriction an	id/or election r	equirement.					
Applicati	on Papers							
9)⊠ The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to	the drawing(s) b	e held in abeyance. Se	ee 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	The oath or declaration is objected to by the	e Examiner. No	te the attached Office	e Action or form P	PTO-152.			
Priority u	inder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 								
Attachmen 1) ⊠ Notic 2) □ Notic 3) □ Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		fied copies not receiv 4) Interview Summar Paper No(s)/Mail E 5) Notice of Informal 6) Other:	y (PTO-413) Date				

DETAILED ACTION

Specification

1. Claim 1 is objected to because of the following informalities:

In claim 1, line 4, "battery set; in at least" should read as --battery set in at least --.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3, 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Kashiwamura [US 2002/0016188].

Regarding claim 1, Kashiwamura discloses a wireless transceiver set. Kashiwamura further discloses:

- a multi-mode power supply device of a wireless earphone; See Fig. 6, and paragraph 62
- the earphone being communicable bi-directionally with portable communication devices wirelessly through an antenna; see figs. 1,2 and element 3a in fig. 6 and paragraphs 32, 34 and 61
- the earphone having a battery set in at least one side of the earphone; see paragraphs 13 and 44

Application/Control Number: 10/770,607

Art Unit: 2618

- an internal of the earphone having a power management circuit; see fig. 6, elements 70

Page 3

and 71 and paragraph 62

- the battery set supplying power to the power management circuit; element 31 in Fig. 6

the power management circuit being used to control the power on or off. See fig. 6 and

paragraph 62

Regarding claim 2, Kashiwamura further discloses a method wherein the communication

devices are selected from portable mobile phones and vehicle used phones. See Fig. 1 where a

portable mobile phone is used.

Regarding claim 3, Kashiwamura further discloses a method wherein the battery set is a

lithium battery set (see paragraph 14); and electric power is transferred from the battery set to the

power management circuit for controlling the power output of the battery set (see paragraph 62).

Regarding claim 8, Kashiwamura further discloses a method wherein the power supply

module is a chargeable battery. See paragraph 14

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

Art Unit: 2618

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 4-7,9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kashiwamura [US 2002/0016188] in view of Chen [US 6,839,448].

Regarding claim 4, Kashiwamura discloses all the limitations as claimed. Kashiwamura further discloses a method wherein the power supply module is electrically connected to the power management circuit..

However he does not disclose in particular a method wherein the power supply module is inserted into or buckled into one side of the earphone;

Chen, in the same field of invention, teaches an earpiece having detachable battery device. Chen further discloses a method wherein the power supply module is inserted into or buckled into one side of the earphone. See col. 2, line 35 – col. 3, line 5

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to provide the above teachings of Chen to Kashiwamura so that the battery device maybe easily disengaged from the earpiece for charging purposes.

Regarding claim 5, Kashiwamura discloses all the limitations as claimed. Kashiwamura further discloses a method wherein the power supply module is electrically connected to the power management circuit.

However he does not disclose in particular a method wherein:

Application/Control Number: 10/770,607

Art Unit: 2618

- a suspender is capable of being inserted into or buckled into the groove of the earphone

so that the suspender is positioned at one side of the power supply module;

- the suspender has a power supply module;

Chen, in the same field of endeavor, teaches method wherein:

- a suspender is capable of being inserted into or buckled into the groove of the earphone

so that the suspender is positioned at one side of the power supply module; See figs. 1-6

and col. 2, line 35 - col. 3, line 23

- the suspender has a power supply module; see col. 2, line 35 – col. 3, line 23

Therefore it would have been obvious to one with ordinary skill in the art at the time the

invention was made to provide the above teachings of Chen to Kashiwamura so that the battery

device maybe easily disengaged from the earpiece for charging purposes.

Regarding claim 6, Kashiwamura discloses all the limitations as claimed. Kashiwamura further

discloses a method wherein the power supply module is electrically connected to the power

management circuit.

However he does not disclose in particular a method wherein:

- one side of the earphone has a groove;

- the power supply module is installed in the suspender;

- one end of the suspender is inserted into the groove so as to position the suspender to the

earphone

Chen, in the same field of endeavor, teaches method wherein:

Page 5

Application/Control Number: 10/770,607 Page 6

Art Unit: 2618

- one side of the earphone has a groove; see figs. 1-6, col. 2, lines 45-59

- the power supply module is installed in the suspender; See figs. 1-6 and col. 2, line 35 –

col. 3, line 23

- one end of the suspender is inserted into the groove so as to position the suspender to the

earphone See figs. 1-6 and col. 2, line 35 - col. 3, line 23

Therefore it would have been obvious to one with ordinary skill in the art at the time the

invention was made to provide the above teachings of Chen to Kashiwamura so that the battery

device maybe easily disengaged from the earpiece for charging purposes.

Regarding claim 7, Kashiwamura discloses all the limitations as claimed. Kashiwamura further

discloses a method wherein the power supply module is electrically connected to the power

management circuit.

However he does not disclose in particular a method wherein:

- one side of the earphone has a groove;

- the power supply module is installed in the suspender;

- one end of the suspender is inserted into the groove so as to position the suspender to the

earphone

Chen, in the same field of endeavor, teaches method wherein:

- one side of the earphone has a groove; see figs. 1-6, col. 2, lines 45-59

the power supply module is installed in the suspender; See figs. 1-6 and col. 2, line 35 –

col. 3, line 23

Art Unit: 2618

- one end of the suspender is inserted into the groove so as to position the suspender to the earphone See figs. 1-6 and col. 2, line 35 – col. 3, line 23

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to provide the above teachings of Chen to Kashiwamura so that the battery device maybe easily disengaged from the earpiece for charging purposes.

Regarding claim 9, Kashiwamura further discloses a method wherein the power supply module is a chargeable battery. See paragraph 14

5. Claims 10,11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kashiwamura [US 2002/0016188] in view of Hutchinson[US 6,472,846].

Regarding claims 10,11, Kashiwamura discloses all the limitations as claimed. However he does not disclose a method wherein the power management circuit has a check loop for preventing power from flowing along a reverse direction so as to protect the components within the earphone.

Hutchinson, in the same field of endeavor, teaches power control circuit applied to a portable audio equipment. Hutchinson further teaches the use of a Schotky diode in the power unit circuit as means of preventing reverse current to flow back to other parts. See col. 3, lines 23-37

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to provide the above teachings of Hutchinson to Kashiwamura as means of preventing reverse current to flow back to other parts.

Application/Control Number: 10/770,607 Page 8

Art Unit: 2618

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure

Nassimi [US 2004/0204155] Non-rechargeable headset

Bae [US 6,868,284] Headset with retractable battery pack

Hahn [US 6,230,029] Modular wireless headset system

Huang [US 2004/0264720] Wireless earphone having replaceable battery module

Ma [US 7,046,799] Communication headset and method

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sujatha Sharma whose telephone number is 571-272-7886. The examiner can normally be reached on Mon-Fri 7.30am - 4.00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew D. Anderson can be reached on 571-272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

Application/Control Number: 10/770,607

Art Unit: 2618

Page 9

like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sujatha Sharma October 10, 2006